WHAT IS CLAIMED IS:

1	1. A method for	moving teeth, said method comprising:			
2	determining an occlus	determining an occlusion from a computer model of a patient's teeth; and			
3	generating a plurality	generating a plurality of appliances based on the occlusion, wherein the			
4	appliances comprise polymeric shell	appliances comprise polymeric shells having cavities and wherein the cavities of successive			
5	shells have different geometries shap	shells have different geometries shaped to receive and resiliently reposition the teeth from			
6	one arrangement to a successive arrangement.				
	•				
1	2. The method o	f claim 1, wherein determining an occlusion comprises			
2	using one or more keys.				
	3. The method of	folgim 2 wherein and of the trave is based on a maler			
	2. relationship	f claim 2, wherein one of the keys is based on a molar			
	relationship.				
	4. The method o	claim 3, further comprising occluding a first permanent			
	molar with a second permanent molar.				
	5. The method of	f claim 4, wherein the first permanent molar has a disto			
_2	buccal cusp with a distal surface and	the second permanent molar has a mesiobuccal cusp			
	with a mesial surface and wherein the distal surface occludes with the mesial surface.				
1		f claim 5, wherein the mesiobuccal cusp occludes in a			
2	groove between mesial and middle c	usps of the first permanent motar.			
1	7. The method of	claim 4, wherein the mesial surface closely approaches			
2	the distal surface.	•			
1	8. The method of	Claim 3, wherein the teeth include canines and			
2	premolars and wherein the canines and premolars have a cusp-embrasure relationship				
3	buccally and a cusp-fossa relationship lingually.				
1	9. The method of	claim 2, wherein one of the keys is based on an			
2		claim 2, wherein one of the keys is based on an			
2	angulation of a crown.	angulation of a crown.			
1	10. The method of	claim 9, wherein the crown has a distal crown tip,			
2	further comprising determining a distal inclination of a gingival portion of the crown.				

1		11.	The method of claim 10, wherein the distal inclination is constant.	
1		12.	The method of claim 10, wherein the distal inclination is constant	
2	within each tooth type.			
1		13.	The method of claim 10, wherein the angulation is determined between	
2	a facial axis of the clinical crown (FACC) and a line perpendicular to an occlusal plane.			
1		14.	The method of claim 13, wherein the angulation is minimized.	
1		15.	The method of claim 9, wherein the angulation is positive.	
		16.	The method of claim 9, wherein the angulation is negative.	
		17.	The method of claim 2, wherein one of the keys is based on a crown	
	inclination.			
		18.	The method of claim 17, wherein the crown inclination represents an	
3	angle formed by a line perpendicular to an occlusal plane and the FACC.			
4		19.	The method of claim 17, wherein the crown inclination is negative	
	when measured from an upper canine through an upper second premolar.			
1		20.	The method of claim 17, wherein the crown inclination is	
2	progressively more negative when measured from a lower canine through a lower second			
3	molar.			
1		21.	The method of claim 17, wherein the crown inclination between a line	
2	parallel and tangent to a facial axis of the clinical crown (FACC) at its midpoint and a line			
3	perpendicular to an occlusal plane.			
1		22.	The method of claim 2, wherein one of the keys is based on tooth	
2	rotation.		*	
1		23.	The method of claim 22, wherein the teeth are free of undesirable	
2	rotations.			

1		24.	The method of claim 2, wherein one of the keys is based on a tooth	
2	contact point.			
1		25.	The method of claim 24, wherein the contact point is tight C.	
		2.5		
1		26.	The method of claim 24, wherein no spaces exist between contact	
2	points.			
1		27.	The method of claim 2, wherein one of the keys is based on an occlusal	
		21.	The memod of claim 2, wherein one of the keys is based on an occiusar	
2	plane.			
1		28.	The method of claim 27, wherein the plane ranges between flat to	
	curves of Spee			
	curves or spec	··		
ā		29.	The method of claim 28, wherein the plane is flat.	
			- -	
` - [30.	The method of claim 28, wherein the plane follows a curve of Spee.	
		31.	The method of claim 30, wherein the curve of Spee is deep.	
		32.	The method of claim 30, wherein the curve of Spee is slight.	
		<i>52.</i>	The medica of claim 50, wherein the carve of opec is single.	
Ü		33.	The method of claim 30, wherein the curve of Spee is reversed.	
1		34.	The method of claim 2, wherein one of the keys is selected from a	
2	group consistii	group consisting of a molar relationship, a crown angulation, a crown inclination, teeth		
3	rotations, teeth contact points, and an occlusal plane.			
1		35.	The method of claim 2, further comprising optimizing a final	
2	placement of the teeth.			
1		36.	The method of claim 35, further comprising:	
2	•	identifying one or more features associated with the teeth; and		
3	generating a model of the teeth based on the identified features.			
1		37.	The method of claim 36, wherein at least one of the feature is	
2	identified automatically.			

1	38.	The method of claim 37, wherein at least one of the feature is		
2	identified by a user	er.		
	UI			
1	39.	The method of claim 2, wherein the computer representation is an ideal		
2	model set of teeth.	model set of teeth.		
	3 9 40.			
1) 1 <u>4</u> 0.	The method of claim 36, wherein the ideal model set of teeth is derived		
2	from a cast of the p	a cast of the patient's teeth.		
	40/			
1	//1 .	The method of claim 36, wherein the ideal model set of teeth is derived		
2	from a patient with	a good occlusion.		
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	42.	The method of claim 2, further comprising generating progress reports		
2	associated with the	determined occlusion.		
<u>.</u>				
þ	43.	The method of claim 42, further comprising browsing the generated		
Ü	reports over a netw	ork.		
15 ,= 623,				
1	44.	The method of claim 43, wherein the network is a wide area network.		
d				
	45.	The method of claim 44, wherein the wide area network is the Internet.		
	•			
1	46.	The method of claim 43, wherein the network is a local area network.		
1	47.	The method of claim 42, wherein the progress report is viewed by a		
2	patient.	·		
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1	48.	The method of claim 42, wherein the progress report is viewed by a		
2	clinician.			
_	ommorum.			
1	49.	The method of claim 2, wherein the user manipulates the computer		
2	representation of the masticatory system.			
1	50.	The method of claim 49, wherein the user is a patient.		
٠.	50.	The medica of elaim 47, wherein the user is a patient.		
1	51.	The method of claim 50, wherein the user is a clinician.		
	J1.			
1	52.	The method of claim 2, further comprising:		
2	generating a model the teeth; and			
_	bonorating a moder the toom, and			